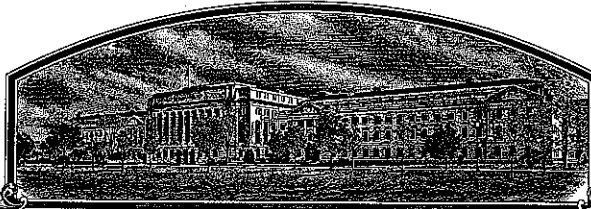


No.

200300325



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Pure Seed Testing, Inc.

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE FOREGOING PURPOSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

BLUEGRASS, ROUGH

'Winterlinks'

In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D.C. this twentieth day of August, in the year two thousand and eight.

Attest:

[Signature]
Commissioner
Plant Variety Protection Office
Agricultural Marketing Service

[Signature]
Secretary of Agriculture

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE

SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and The Paperwork Reduction Act (PRA) of 1995.

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE
(Instructions and information collection burden statement on reverse)

1. NAME OF OWNER Pure Seed Testing, Inc.		2. TEMPORARY DESIGNATION OR EXPERIMENTAL NAME PST-ODK		3. VARIETY NAME Winterlinks	
4. ADDRESS (Street and No., or RFD No., City, State, and ZIP Code, and Country) PO Box 449 Hubbard, OR 97032		5. TELEPHONE (include area code) 503-651-2130		FOR OFFICIAL USE ONLY PVPO NUMBER 200300325	
6. FAX (include area code) 503-651-2351		9. DATE OF INCORPORATION 1975		FILING DATE August 25, 2003	
7. IF THE OWNER NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION (corporation, partnership, association, etc.) Corporation		8. IF INCORPORATED, GIVE STATE OF INCORPORATION Oregon		FILING AND EXAMINATION FEES: \$ 3652⁻ DATE 8/25/03 CERTIFICATION FEE: \$ 768.⁰⁰ DATE 8/12/2008	
10. NAME AND ADDRESS OF OWNER REPRESENTATIVE(S) TO SERVE IN THIS APPLICATION. (First person listed will receive all papers) Crystal Rose-Fricker PO Box 449 Hubbard, OR 97032					
11. TELEPHONE (Include area code) 503-651-2130		12. FAX (include area code) 503-651-2351		13. E-MAIL crystal@turf-seed.com	
14. CROP KIND (Common Name) rough-stalk bluegrass		16. FAMILY NAME (Botanical) Gramineae		18. DOES THE VARIETY CONTAIN ANY TRANSGENES? (OPTIONAL) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO IF SO, PLEASE GIVE THE ASSIGNED USDA-APHIS REFERENCE NUMBER FOR THE APPROVED PETITION TO DEREGULATE THE GENETICALLY MODIFIED PLANT FOR COMMERCIALIZATION.	
15. GENUS & SPECIES NAME OF CROP Poa trivialis		17. IS THE VARIETY A FIRST GENERATION HYBRID? No		20. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE SOLD AS A CLASS OF CERTIFIED SEED? (See Section 83(a) of the Plant Variety Protection Act) <input type="checkbox"/> YES (If "yes," answer items 21 and 22 below) <input checked="" type="checkbox"/> NO (If "no," go to item 23)	
19. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions on reverse) a. <input checked="" type="checkbox"/> Exhibit A. Origin and Breeding History of the Variety b. <input checked="" type="checkbox"/> Exhibit B. Statement of Distinctness c. <input checked="" type="checkbox"/> Exhibit C. Objective Description of Variety d. <input checked="" type="checkbox"/> Exhibit D. Additional Description of the Variety (Optional) e. <input checked="" type="checkbox"/> Exhibit E. Statement of the Basis of the Owner's Ownership f. <input checked="" type="checkbox"/> Voucher Sample (2,500 viable untreated seeds or, for tuber propagated varieties, verification that tissue culture will be deposited and maintained in an approved public repository) g. <input checked="" type="checkbox"/> Filing and Examination fee (\$3,652), made payable to "Treasurer of the United States" (Mail to the Plant Variety Protection Office)		21. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF CLASSES? <input type="checkbox"/> YES <input type="checkbox"/> NO IF YES, WHICH CLASSES? <input type="checkbox"/> FOUNDATION <input type="checkbox"/> REGISTERED <input type="checkbox"/> CERTIFIED		22. DOES THE OWNER SPECIFY THAT THE CLASSES BE LIMITED AS TO NUMBER OF GENERATIONS? <input type="checkbox"/> YES <input type="checkbox"/> NO IF YES, SPECIFY THE NUMBER 1, 2, 3, etc. FOR EACH CLASS. <input type="checkbox"/> FOUNDATION <input type="checkbox"/> REGISTERED <input type="checkbox"/> CERTIFIED (If additional explanation is necessary, please use the space indicated on the reverse.)	
23. HAS THE VARIETY (INCLUDING ANY HARVESTED MATERIAL) OR A HYBRID PRODUCED FROM THIS VARIETY BEEN SOLD, DISPOSED OF, TRANSFERRED, OR USED IN THE U.S. OR OTHER COUNTRIES? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO IF YES, YOU MUST PROVIDE THE DATE OF FIRST SALE, DISPOSITION, TRANSFER, OR USE FOR EACH COUNTRY AND THE CIRCUMSTANCES. (Please use space indicated on reverse.)		24. IS THE VARIETY OR ANY COMPONENT OF THE VARIETY PROTECTED BY INTELLECTUAL PROPERTY RIGHT (PLANT BREEDER'S RIGHT OR PATENT)? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO IF YES, GIVE COUNTRY, DATE OF FILING OR ISSUANCE AND ASSIGNED REFERENCE NUMBER. (Please use space indicated on reverse.)			
25. The owners declare that a viable sample of basic seed of the variety has been furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue will be deposited in a public repository and maintained for the duration of the certificate. The undersigned owner(s) is(are) the owner of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 42, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act. Owner(s) is(are) informed that false representation herein can jeopardize protection and result in penalties.					
SIGNATURE OF OWNER <i>Crystal A Rose-Fricker</i>		SIGNATURE OF OWNER <i>Crystal Fricker</i>			
NAME (Please print or type) Crystal A. Rose-Fricker		NAME (Please print or type) Crystal Fricker			
CAPACITY OR TITLE President		DATE 8/22/03		CAPACITY OR TITLE 	
				DATE 	

Exhibit A - Revised

Origin and Breeding History of 'Winterlinks' *Poa trivialis*

'Winterlinks' (PST-ODK) *Poa trivialis* was developed and released by Pure Seed Testing, Inc., Hubbard, OR, as part of a breeding program to improve *P. trivialis* cultivars for winter overseeding of *Cynodon* turfs and permanent turf use in shade. The germplasm used in the development of Winterlinks originated from plants collected in the United States and plants selected from 'Winterplay'.

During the spring of 1993, 15 *P. trivialis* plants were selected from spaced-plant nurseries near Hubbard, prior to anthesis, and transplanted into an isolated polycross designated OOL. Eight of these plants were from a collection made at Foster Turf, near Palm Springs, CA, while the other seven plants were selected from Winterplay. These 15 plants were selected for late maturity, very low growth habit, dark green color, freedom from disease and a high percentage of basal tillers. They were allowed to interpollinate and seed was subsequently harvested from each plant during the summer of 1993.

Also during the spring of 1993, 39 *P. trivialis* plants were selected from spaced-plant nurseries near Hubbard and transplanted into an isolated polycross designated OO3. Twenty-five of these plants were selected from Winterplay; six were collected from Happy Hollow Golf Course, Omaha, NE; four were collected from lawns at Stephens College, Columbia, MO and four were collected at Foster Turf. These plants were selected for medium maturity, freedom from disease and a high percentage of basal tillers. These 39 plants were allowed to interpollinate and seed was subsequently harvested during the summer of 1993.

During the fall of 1993, seed harvested from the OOL and OO3 crossing blocks were used to establish an isolated 3510-plant nursery near Hubbard. In the spring of 1994, 45 plants with early maturity, tall growth habit, high percentage of reproductive tillers and freedom from leaf scald and stem rust were selected from this nursery and transplanted into an isolated polycross designated OOE. Thirty-four of these plants traced to OO3 and ten to OOL. The plants in the OOE polycross were allowed to interpollinate and seed was subsequently harvested during the summer of 1994.

Also during the spring of 1994, 26 plants with late maturity and short plant type were transplanted into an isolated polycross designated OLS. Fourteen of these plants were from OO3; six were of unknown origin; four originated from a vigorous plant, designated Shade-1, found growing in the shade near Hubbard and two were from OOL. The plants in the OLS polycross were allowed to interpollinate and seed was subsequently harvested during the summer of 1994.

During the fall of 1994, seed harvested from the OOE polycross was used to establish an isolated 2600-plant nursery, designated OOE-95, near Hubbard. Sixteen plants with medium maturity and good seed yield potential were selected from this nursery during the spring of 1995, prior to anthesis, and transplanted into an isolated polycross designated OMA. These 16 plants were allowed to interpollinate and seed was subsequently harvested from each plant during the summer of 1995. Seed harvested from each plant was used to establish progeny turf plots in a shade trial near Hubbard during the fall of 1995.

Also during the spring of 1995, 15 plants from the OOE-95 nursery, along with 30 plants from OLS, were transplanted into an isolated polycross designated OEJ. These 45 plants were selected for early maturity, high seed yield potential and freedom from disease. They were allowed to interpollinate and seed was subsequently harvested from each plant during the summer of 1995. Seed harvested from these plants was also used to establish progeny turf plots in the shade trial during the fall of 1995.

During the late summer of 1998 the best-performing *P. trivialis* turf plots were identified in the 1995 shade trial. Plants were dug from these plots and used to establish an isolated spaced-plant nursery near Hubbard. During the spring of 1999, 22 plants with dark color, low growth habit and freedom from disease were selected from this nursery and transplanted into an isolated polycross designated ODK. Thirteen of these plants were from OEJ; six were from plant PT-3, which was found as a contaminant in a turf trial seeded fall of 1994 near Hubbard; two were from OMA and one, designated ODK-22, was of unknown origin. These 22 plants were allowed to interpollinate and seed was subsequently harvested during the summer of 1999.

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Seed from this harvest was used to establish an isolated 4400-plant nursery near Hubbard during the fall of 1999. During the spring of 2000, plants were removed from this nursery, prior to anthesis, to increase uniformity of plant type and maturity. Selection criteria for remaining plants were dark color, medium maturity, low growth habit, freedom from leaf scald and stem rust and high percentage of reproductive tillers. Remaining plants were allowed to interpollinate and Breeder seed of Winterlinks was subsequently harvested from 741 plants during the summer of 2000. The plants harvested to produce the Breeder seed of Winterlinks traced their maternal origins to the following sources: 54% to Winterplay, 23% to PT-3, 17% to unknown sources in population OLS, 3% to ODK-22, 2% to Shade-1 and 1% to plants collected at Foster Turf.

Seed propagation of Winterlinks is limited to three generations of increase from Breeder seed: one each of Foundation, Registered and Certified. Pure Seed Testing, Inc. maintains Breeder seed in Oregon. Winterlinks is a stable and uniform cultivar. Winterlinks has shown stability and uniformity multiplied from Breeder seed through the Certified seed generation. No variants have been observed in the replication or multiplication of Winterlinks *Poa trivialis*.

Exhibit B

Statement of Distinctness for 'Winterlinks' *Poa trivialis*

'Winterlinks' is most similar to 'Winterplay' *Poa trivialis*. They differ in the following characteristics:

1. Winterlinks has a mean plant height at least 3.7 cm shorter than Winterplay (Tables 1, 2).
2. Winterlinks has a mean top flag leaf height at least 3.2 cm shorter than Winterplay (Tables 1, 2).

Table 1. 2001 mean morphological measurements for entries in a *Poa trivialis* seed yield trial seeded fall of 2000 near Hubbard, OR.

Entry	Plant Height (cm)	Panicle Length (cm)	Top				Flag Leaf Length (cm)	Flag Leaf Width (mm)	Tiller Leaf Length (cm)	Tiller Leaf Width (mm)	Tillers/ 12.7 cm Row (#)
			Flag Leaf Height (cm)	Flag Leaf Length (cm)	Flag Leaf Width (mm)	Tiller Leaf Length (cm)					
Sabre	80.8	13.9	47.6	9.0	4.3	11.9	4.8	49.8			
Winterplay	76.2	12.0	45.7	7.3	4.0	9.5	4.8	55.4			
Winterlinks	69.2	10.8	39.0	6.1	4.5	8.5	4.6	61.3			
LSD (0.05)	2.2	0.8	2.1	0.7	0.5	0.9	0.5	6.2			

Table 2. 2003 mean morphological measurements for entries in a *Poa trivialis* spaced-plant trial planted fall of 2002 near Hubbard, OR.

Entry	Plant Height (cm)	Panicle Length (cm)	Top Flag Leaf Height (cm)	Top Flag Leaf Length (cm)	Top Flag Leaf Width (mm)	Tiller Leaf Length (cm)	Tiller Leaf Width (mm)	Tiller Leaf Sheath Length (cm)	Flag Leaf Sheath Length (cm)	Ligule Length (mm)	Branches/ Lowest Whorl (#)
Winterplay	68.9	14.7	41.9	7.2	4.3	8.9	4.5	12.4	13.6	5.9	5.2
Winterlinks	65.2	14.6	38.7	7.6	3.6	9.3	3.9	11.3	12.5	5.3	4.7
Sabre	54.8	17.9	47.4	9.7	6.5	11.2	7.1	10.4	14.4	6.2	7.0
LSD (0.05)	2.6	0.8	2.0	0.5	0.3	0.6	0.3	0.6	0.6	0.4	0.3

Table 3. Mean initial heading dates for entries in a *Poa trivialis* seed yield trial seeded fall of 2000 near Hubbard, OR.

Entry	2001	2002
Laser	12 May	17 May
Winterlinks	12 May	16 May
Winterplay	10 May	15 May
Sabre	05 May	09 May
LSD (0.05)	3 days	7 days

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According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number for this collection of information is (0581-0055). The time required to complete this information collection is estimated to average 30 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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**U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY PROGRAM
PLANT VARIETY PROTECTION OFFICE
BELTSVILLE, MD 20705**

**EXHIBIT C
(BLUEGRASS)**

**OBJECTIVE DESCRIPTION OF VARIETY
BLUEGRASS
(*Poa* spp.)**

NAME OF APPLICANT(S) Pure Seed Testing, Inc.	TEMPORARY DESIGNATION PST-ODK	VARIETY NAME Winterlinks
ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code) P.O. Box 449, Hubbard, OR 97032		FOR OFFICIAL USE ONLY PVPO NUMBER #200300325

Select the number which characterizes the variety in the features described below. For measured characteristics use leading zeros as necessary in order to fill all blanks (e.g. 089). Those characteristics marked with a star * are preferred to be recorded. Any others should be recorded to help establish novelty or uniqueness. Characteristics described, including numerical measurements, should represent those that are typical for the variety. Measured data should be for SPACED PLANTS. Royal Horticultural Society or any recognized color fan may be used to determine plant colors; designate the system used:

Describe location of test area, conditions, and number of Plants used: **Pure Seed Testing Research Farm near Hubbard, OR. Sixty plants measured from seed yield trials planted in a randomized complete block with three replications of 20 plants each.**

1. SPECIES:

1 = *Poa compressa* 2 = *P. pratensis* 3 = *P. trivialis* 4 = Others (Please Specify):

Chromosome Number

2. ADAPTATION: (0 = Not Tested, 1 = Not Adapted, 2 = Adapted, 3 = Well Adapted)

Northeast Transitional Zone Southeast North Central
 Pacific N.W. Intermountain Southwest (CA, AZ) Other (Please Specify): **Winter overseeding of *Cynodon***

3. MATURITY (At first anthesis): Give test area near Hubbard, Oregon.

★ 1 = Very Early 2 = Early (Delta, Mystic) 3 = Medium Early (Fylking, Nugget)
 4 = Medium late (Newport, Adelphi, Aquila) 5 = Late (Merion, Baron, Enmundi)
 6 = Very Late (Pacific)

Date of First Anthesis: **4 June**

<input type="text"/>	<input type="text"/>	Number of days earlier than	★ <input type="text"/>	}	1 = Nugget	2 = Fylking	3 = Delta
		Maturity same as	★ <input type="text"/>		4 = Merion	5 = Newport	6 = Baron
<input type="text" value="0"/>	<input type="text" value="7"/>	Number of days later than	★ <input type="text" value="8"/>		7 = Mystic	8 = Sabre	9 = Reubens

4. PLANT HEIGHT (At maturity-Average of longest shoot of 10 plants from soil surface to top of panicle): *Test Area* **Hubbard, OR**
- ★ 1 = Short 2 = Medium short (Baron, Fylking, Mystic)
 3 = Medium tall (Merion, Adelphi) 4 = Tall (delta) 5 = Very tall

★

cm Height

cm Shorter than

Height same as

cm Taller than

★

★

★

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1 = Nugget

2 = Fylking

3 = Delta

4 = Merion

5 = Newport

6 = Baron

7 =Mystic

8 = Sabre

9 = Reubens

5. GROWTH HABIT:

★

Habit: 1 = Prostrate (Nugget) 2 = Semiprostrate (Merion) 3 = Erect (Delta)

cm Amount of spread by rhizomes in 1 year (give test area: _____)

6. LEAF BLADE:

★

Green color:

1 = Light green (Mystic)

3 = Moderately dk. green (Merion, Adelphi)

2 = Medium green (Fylking, Bonnieblue)

4 = Very dk. green (Nugget, Glade, Enmundi)

★

Bluegreen color:

1 = Not bluegreen (Mystic, Touchdown, Parade)

3 = Bluegreen (Nugget, Enmundi, Adelphi)

2 = Moderately bluegreen (Merion, A-34)

4 = Strongly bluegreen (Majestic)

Winter color:

1 = Light green

2 = Dark green

3 = Light purple

4 = Dark purple

5 = Not purple

6 = Not green or purple

★

Hairs upper side:

1 = Absent (Nugget)

2 = Sparse (Merion)

3 = Dense (Park)

Hairs lower side:

1 = Absent (Fylking, Merion)

2 = Sparse

3 = Dense (Nugget)

Luster upper side:

1 = Shiny (Eclipse, Enmundi)

2 = Dull (Aquila, Parade)

Luster lower side:

1 = Shiny (Mystic, Enmundi)

2 = Dull (Barbie, Eclipse)

★

Margin hairs

(Fringe on Margin or Base):

1 = Absent (Delta)

2 = Present (Fylking, Merion)

★

Width:

1 = Very fine (Mystic)

4 = Broad (Adelphi, Baron)

2 = Fine (Nugget)

3 = Medium (Merion, Fylking)

5 = Very broad (Monopoly)

mm Width (tiller leaf)

mm Narrower than

Width same as

mm Wider than

★

★

★

1 = Nugget

2 = Fylking

3 = Delta

4 = Merion

5 = Newport

6 = Baron

7 = Mystic

8 = Sabre

9 = Reubens

mm Length (tiller leaf)

mm Shorter than

Length same as

mm Longer than

★

★

★

1 = Nugget

2 = Fylking

3 = Delta

4 = Merion

5 = Newport

6 = Baron

7 = Mystic

8 = Sabre

9 = Reubens

1 Position of flag leaf (angle to stem): 1 = Appressed 2 = Open angle, yet stiff 3 = Nodding

7. LEAF SHEATH:

1 1 3 cm sheath length

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- ★ 1 Seedling Color (base of sheath): 1 = Green (Nugget, Merion) 2 = Red (Delta)
- ★ 1 Hairs on Margin: 1 = Absent (Fylking) 2 = Present (Nugget)
- ★ 2 Margin Roughness (to touch): 1 = Smooth (Delta) 2 = Rough (Sabre)
- 1 Hairs on Surface: 1 = Absent () 2 = Present (Nugget)
- 2 Surface Roughness (to touch): 1 = Smooth (Fylking) 2 = Rough (Ram I)
- 1 Hairs on both sides just beneath leaf blade (under collar): 1 = Absent (Merion) 2 = Present (Nugget)
- ★ 1 Hairs on ligule: 1 = Absent (Fylking) 2 = Short (Baron) 3 = Long (Nugget)
- 1 Glaucosity: 1 = Absent (Mystic, Enmundi) 2 = Present (Birka)
- 1 Keel: 1 = Absent (Ram I) 2 = Present (Adelphi)

8. PANICLE (Mature Plant):

1 0 8 mm Length (Lowest branch whorl to top, for 10 plants) Test Area:

0 3 1 mm Shorter than 8 1 = Nugget 2 = Fylking 3 = Delta

Panicle same as 4 = Merion 5 = Newport 6 = Baron

mm Longer than 7 = Mystic 8 = Sabre 9 = Reubens

- ★ 1 Color (at 50% flowering): 1 = Not red (Fylking) 2 = Red (Nugget)
- 1 Shape of Rachis (opposite lower side branches): 1 = No bend (Nugget) 2 = Bend (Merion)
- ★ 2 Collar: 1 = Opened (Nugget) 2 = Closed (Merion)
- ★ 2 Branches Attitude (Lowest whorl): 1 = Drooping (America, Prato) 2 = Horizontal (Merion) 3 = Ascending (Tundra)
- 5 Number of main branches in lowest whorl:
- ★ 1.5 Panicle habit: 1 = Nodding (Newport) 2 = Upright (Nugget)
- ★ 1 Panicle type: 1 = Open 2 = Intermediate 3 = Compact
- 1 Anther color (anthesis): 1 = Purple 2 = Yellow 3 = Brown

9. LEMMA

- ★ 3 Keel 1 = Glabrous 2 = Slightly pubescent 3 = Pubescent
- ★ 1 Marginal Nerves
- 1 Intermediate Nerves: 1 = Distinct 2 = Obscure
- 3 Basal Webbing: 1 = Absent 2 = Scant (Baron) 3 = Copious (Merion)

10. SEED: (Floret-not dehulled)

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★ Apomixis Percentage: 1 = more than 95 2 = 85 to 95 3 = less than 85
 Phenol Reaction: 1 = none-lemma removed (Merion) 2 = Beige (Cougar) 3 = Brown (Windsor)
 4 = Black (Mystic -2hrs) 5 = Black (-24hrs)

mm Width (average of 10) mm Length

Milligrams per 10,000 seed

Milligrams less than

Weight same as

Milligrams more than

★ } 1 = Nugget 2 = Fylking 3 = Delta
 ★ } 4 = Merion 5 = Newport 6 = Baron
 ★ } 7 = Mystic 8 = Sabre 9 = Reubens

Weight Class (g per 10,000 seed): 1 = Light (< 3g Sydsport, Merion)
 2 = Medium (3g - 4g Adelphi, Parade)
 3 = Heavy (> 4g Fylking, Nugget)

11. ENVIRONMENTAL RESISTANCE:
 (0 = Not Tested; 1 = Very Susceptible, 2 = Moderately Susceptible, 3 = Moderately Resistant, 4 = Highly Resistant)

★ Cool Temperature (Winter color) Cold (injury) Heat Drought
 Shade Low Fertility Acid Soil (< pH 5.5) Alkalinity (pH > 7.5)
 Salinity Soil Compaction Poor Drainage Air Pollution
 Other (Please Specify):

12. DISEASE RESISTANCE:
 (0 = Not Tested; 1 = Very Susceptible, 2 = Moderately Susceptible, 3 = Moderately Resistant, 4 = Highly Resistant)

<input type="text" value="0"/> Melting-Out <i>Drechslera poae</i> (<i>Helminthosporium vagans</i>)	<input type="text" value="0"/> Sclerotinia <i>S. borealis</i>
<input type="text" value="0"/> Helminthosporium Leaf Spot <i>Bipolaris sorokiniana</i>	<input type="text" value="3"/> Stem Rust <i>Puccinia graminis</i>
<input type="text" value="3"/> Brown Patch <i>Rhizoctonia solani</i>	<input type="text" value="3"/> Stripe Rust <i>P. striiformis</i>
<input type="text" value="3"/> Powdery Mildew <i>Erysiphe graminis</i>	<input type="text" value="3"/> Leaf Rust <i>P. poae-nemoralis</i>
<input type="text" value="0"/> Stripe Smut <i>Ustilago striiformis</i>	<input type="text" value="0"/> Orange Stripe Rust <i>P. poarum</i>
<input type="text" value="0"/> Flag Smut <i>Urocystis agropyri</i>	<input type="text" value="2"/> Pythium Blight <i>Pythium</i> spp.
<input type="text" value="0"/> Pink Snow Mold <i>Fusarium nivale</i>	<input type="text" value="3"/> Red Thread <i>Corticium fujiciforme</i>
<input type="text" value="0"/> Ergot <i>Claviceps purpurea</i>	<input type="text"/> Other (Please Specify):
<input type="text" value="0"/> Fusarium Blight <i>Fusarium roseum</i> , <i>F. tricinctum</i>	<input type="text"/> Other (Please Specify):
<input type="text" value="0"/> Typhula Blight <i>Typhula</i> spp.	
<input type="text" value="0"/> Dollar Spot <i>Sclerotinia homoeocarpa</i>	

13. INSECTS, NEMATODES, RESISTANCE:

(0 = Not Tested; 1 = Very Susceptible, 2 = Moderately Susceptible, 3 = Moderately Resistant, 4 = Highly Resistant)

- Chinch Bug *Blissus* spp. (give species:)
- Sod Webworm *Crambus* spp. (give species:)
- Bluegrass Billbug *Sphenophorus parvulus*
- White Grub: Japanese Beetle, Chafer (give species)
- Greenbug Aphid *Schizaphis graminum*
- Other (Please Specify):
- Other (Please Specify):

14. Give variety or varieties that most closely resemble the application variety. For the following characteristics indicate Degree of Resemblance by placing in the column marked D.R., one of the following numbers: 1 = Application variety is less than comparison variety; 2 = Same as; 3 = More than, better, greater, darker, more disease resistant, etc.

CHARACTER	VARIETY	D.R.	CHARACTER	VARIETY	D.R.
Maturity-heading	Winterplay	3	Leaf Width	Winterplay	2
Height	Winterplay	1	Leaf Color Spring	Winterplay	2
Seed Size	Winterplay	2	Leaf Color Summer	Winterplay	2
Seed Weight	Winterplay	3	Leaf Color Winter	Winterplay	2
Cold Injury	Winterplay	2	Drought	Winterplay	2
Heat	Winterplay	2	Disease**		
Shade	Winterplay	2	Stem Rust		

**Specify each disease evaluated.

15. ADDITIONAL DESCRIPTION

Describe all characteristics and conditions that cannot be adequately described in this form in Exhibit D.

Additional Description of 'Winterlinks' *Poa trivialis*

Winterlinks has shown good spring transition in winter overseeding trials (Tables 4, 5).

Table 4. Mean turf quality, Pythium and spring transition ratings for *Poa trivialis* entries in a winter overseeding turf trial seeded fall of 2001 near Rolesville, NC.

Entry	Turf Quality	Pythium 25 Mar	Transition		
			May	June	July
Winterlinks	4.8¹	5.7²	6.0³	8.3	9.0
Winterplay	4.4	4.7	5.8	8.3	9.0
Winterstar	4.2	5.0	6.2	8.3	9.0
LSD (0.05)	1.0	2.0	1.3	1.0	1.1

¹9 = ideal; ²9 = no disease; ³9 = no cool-season grass apparent

Table 5. 2002 mean performance characteristics for *Poa trivialis* entries in a winter overseeding turf trial seeded September 2001 near Scottsdale, AZ.

Entry	% Cool-Season Grass 1 June	Turf Quality
Winterstar	0.0	2.4
Winterlinks	0.0	2.1
Winterplay	0.0	1.9
LSD (0.05)	7.4	1.0

¹9 = ideal

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE**EXHIBIT E**
STATEMENT OF THE BASIS OF OWNERSHIP

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

1. NAME OF APPLICANT(S) Pure Seed Testing, Inc.	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER PST-ODK	3. VARIETY NAME Winterlinks
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country) PO Box 449 Hubbard, OR 97032	5. TELEPHONE (include area code) 503-651-2130	6. FAX (include area code) 503-651-2351
7. PVPO NUMBER #200300325		

8. Does the applicant own all rights to the variety? Mark an "X" in appropriate block. If no, please explain. ☒ YES ☐ NO9. Is the applicant (individual or company) a U.S. national or U.S. based company? If no, give name of country. ☒ YES ☐ NO10. Is the applicant the original owner? ☒ YES ☐ NO If no, please answer one of the following:

a. If original rights to variety were owned by individual(s), is (are) the original owner(s) a U.S. national(s)?

☐ YES ☐ NO If no, give name of country

b. If original rights to variety were owned by a company(ies), is (are) the original owner(s) a U.S. based company?

☐ YES ☐ NO If no, give name of country

11. Additional explanation on ownership. (Trace ownership from original breeder to current owner. Use the reverse for extra space if needed):

Pure Seed Testing, Inc. has licensed Winterlinks to Turf-Seed, Inc.**PLEASE NOTE:**

Plant variety protection can only be afforded to the owners (not licensees) who meet the following criteria:

1. If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.
2. If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.
3. If the applicant is an owner who is not the original owner, both the original owner and the applicant must meet one of the above criteria.

The original breeder/owner may be the individual or company who directed the final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definitions.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this collection of information is (0581-0055). The time required to complete this information collection is estimated to average 1.4 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, D.C. 20250-9410 or call (202) 720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

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